

MWRD Welcomes

Members of

The Advisory Technical Panel

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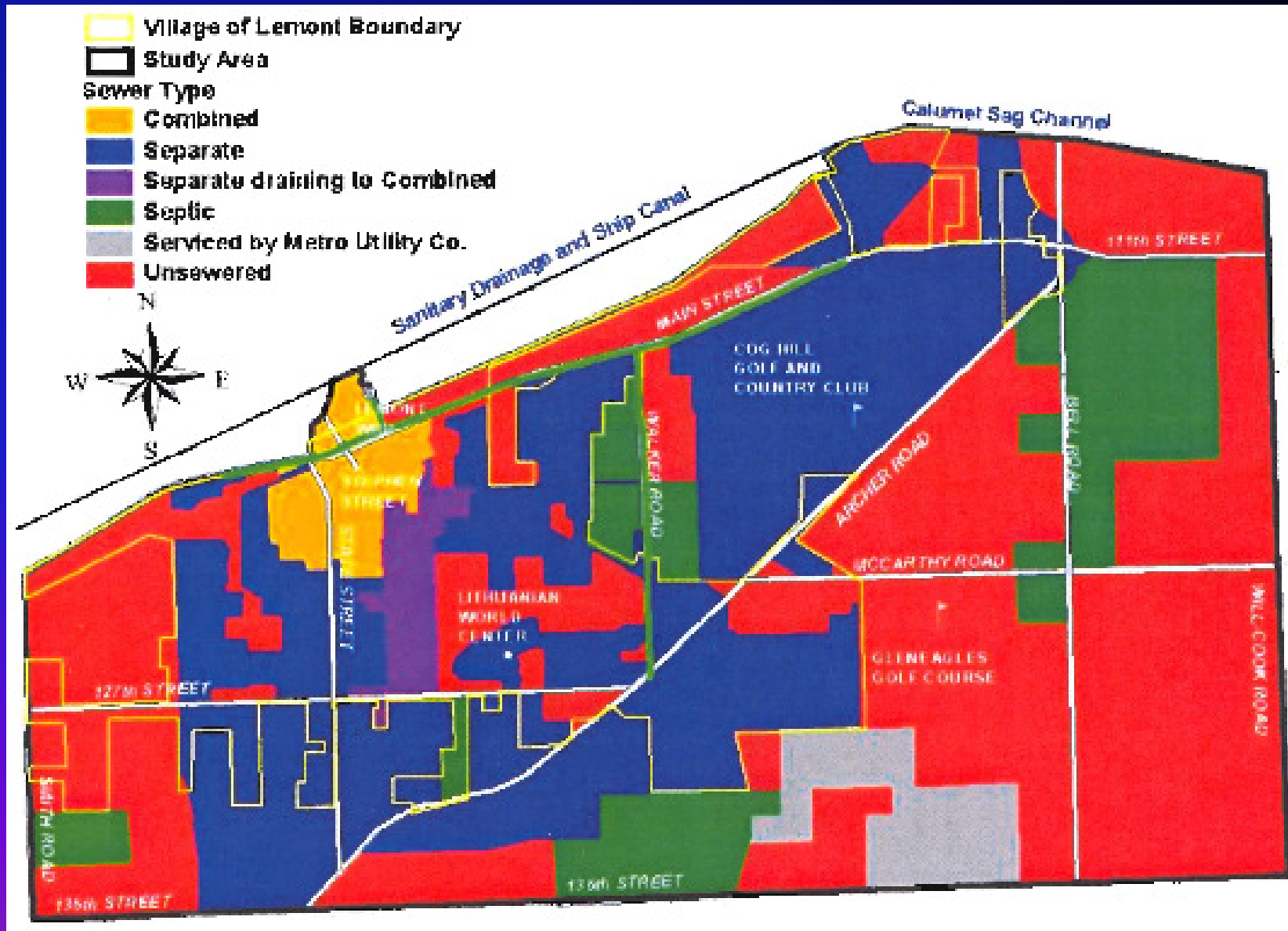
MWRDGC

High Wet Weather Flows

Choice of MWRD's WRPs for Study

- Lemont
- Hanover Park
- Egan

Focusing on Lemont WRP





MWRDGC

Lemont WRP Flow Data

Date	MGD		Date	MGD
1-Oct-10	1.80		1-May-11	3.18
2-Oct-10	2.01		2-May-11	2.32
3-Oct-10	1.96		3-May-11	2.28
4-Oct-10	1.88		4-May-11	2.09
5-Oct-10	1.78		5-May-11	2.33
6-Oct-10	1.75		6-May-11	2.47
7-Oct-10	1.85		7-May-11	2.25
8-Oct-10	1.81		8-May-11	2.09
9-Oct-10	1.86		9-May-11	2.02
10-Oct-10	1.74		10-May-11	2.02
11-Oct-10	1.78		11-May-11	2.04
12-Oct-10	2.03		12-May-11	2.06
13-Oct-10	1.95		13-May-11	2.03
14-Oct-10	1.78		14-May-11	2.07
15-Oct-10	1.78		15-May-11	2.64
16-Oct-10	1.85		16-May-11	2.47
17-Oct-10	1.83		17-May-11	1.98
18-Oct-10	1.79		18-May-11	1.89
19-Oct-10	1.67		19-May-11	1.93
20-Oct-10	1.66		20-May-11	1.81
21-Oct-10	1.75		21-May-11	1.98
22-Oct-10	1.65		22-May-11	2.01
23-Oct-10	2.00		23-May-11	1.94
24-Oct-10	1.87		24-May-11	1.88
25-Oct-10	3.24		25-May-11	3.21
26-Oct-10	3.14		26-May-11	4.46
27-Oct-10	2.11		27-May-11	4.38
28-Oct-10	1.65		28-May-11	4.24
29-Oct-10	2.28		29-May-11	3.65
30-Oct-10	1.94		30-May-11	4.31
31-Oct-10	1.89		31-May-11	4.29
1-Nov-10	1.77		1-Jun-11	3.62
2-Nov-10	1.79		2-Jun-11	2.39
3-Nov-10	1.74		3-Jun-11	2.33
4-Nov-10	1.81		4-Jun-11	2.26
5-Nov-10	1.87		5-Jun-11	2.57
6-Nov-10	1.81		6-Jun-11	2.51
7-Nov-10	1.94		7-Jun-11	2.47

Lemont WRP Flow Analysis (I)

Date	MGD		Date	MGD
13-Oct-10	1.95			
14-Oct-10	1.78			
15-Oct-10	1.78			
16-Oct-10	1.85		26-May-11	4.46
17-Oct-10	1.83			
18-Oct-10	1.79			
19-Oct-10	1.67			
Weekly Average	1.81		Maximum	4.46

Lemont WRP Flow Analysis (II)

Baseline flow 1.81 MGD (95 gpcpd)

Wet weather flow 4.46 MGD (235 gpcpd)

Clear water 2.65 MGD (140 gpcpd)

Monthly Averages:

A dry month (October, 2010) 1.92 MGD

A wet month (May, 2011) 2.59 MGD

Clear water 0.67 MGD

Egan WRP Flow Analysis

Weekly Averages:

- October 2010 - 23.17 MGD
- May 2011 – 40.6 MGD

May 30, 2011 – **52.3 MGD**

Hanover Park WRP Flow Analysis

Weekly Averages:

- October 2010 – 6.33 MGD
- May 2011 – 14 MGD

May 31, 2011 – **18.39 MGD**

(Egan and Hanover Park WRPs serve separate sanitary sewer systems !!)

Lift Station Permits and Operation

- Typical design of Lift Stations
- Simultaneous operation of pumps exceeding allowable discharge rate
- Permit applications for increasing pumping capacity
- Reduction in service area but resistance to reduction in pumping capacity and insistence on continuing simultaneous pump operation

Long-Term O&M Program Annual Summary Reports

- Deficient public sector monitoring
- Almost negligible private sector monitoring
- Aging/aged infrastructure